

Claims

1. An anti-allergic agent, which comprises as an effective ingredient a protein comprising an amino acid sequence of SEQ ID NO: 1 or a protein
5 comprising an amino acid sequence of SEQ ID NO: 3 where one or more amino acid residues are replaced, inserted or added in such a manner that the anti-allergic activity of the protein is not substantially eliminated.
2. An anti-allergic agent, which comprises as an effective ingredient a
10 protein comprising an amino acid sequence of SEQ ID NO: 2 or a protein comprising an amino acid sequence of SEQ ID NO: 4 where one or more amino acid residues are replaced, inserted or added in such a manner that the anti-allergic activity of the protein is not substantially eliminated.
- 15 3. An anti-allergic agent, which comprises royal jelly or purified royal jelly.
4. The agent of claim 3, wherein said purified royal jelly is a water-soluble protein fraction obtained from a royal jelly.
5. The agent of any one of claims 1 to 4, which is characterized in that
20 said agent lowers the relative production of interleukin 2 to 80% or less or of interleukin 4 to 60% or less than the case of without the protein of the agent in the inhibition test of cytokine production using a sample with 2 mg/ml protein concentration, disclosed in the specification.
6. A method for inhibiting allergy, which is characterized in that use of
25 a composition comprising a protein having an amino acid sequence of SEQ ID NO: 3 or where one or more amino acid residues are replaced, inserted or added in a manner that the activity is not substantially eliminated.

7. A method for inhibiting allergy, which is characterized in that use of a composition comprising a protein having an amino acid sequence of SEQ ID NO: 4 or the protein where one or more amino acid residues are replaced, inserted or added in a manner that the activity of the protein is not substantially eliminated.
8. The method of claim 6 or 7, wherein said composition is a royal jelly or a purified royal jelly.
9. The method of claim 8, wherein said purified royal jelly is a water-soluble protein fraction from a royal jelly.
10. The method of any one of claims 6 to 9, which is characterized by taking or administering the protein of claim 6 or 7 at a dose of 0.01 to 100 mg/kg body weight.
11. A food or beverage, which comprises the agent of any one of claims 1 to 4.
12. A cosmetic, which comprises the agent of any one of claims 1 to 4.
13. A pharmaceutical, which comprises the agent of any one of claims 1 to 4.